

## **Standard and Custom Thermal Chambers**

Sigma Systems employs over 50 years of designing temperature chambers that are optimized for the application. We offer a wide range of chamber shapes, sizes, and configurations that accomodate the needs for test access, cable routing, test visibility, wide temperature ranges, and rapid temperature transitions.

# Features and Options

- ▶ -185° to +500°C with transition rates up to 100°C/minute
- Chamber sizes: height, depth, and width configured for your test setup
- ► Test access: cable notches, access ports, pull-off doors, shelves, windows, all sized and located to test setup
- ► Control and communications: Touch-screen controller, IEEE-488 GPIB, RS232 Serial, Ethernet, Telnet, web server



Precision control, multiple I/Os, and diagnostics

- Castered stands, bench top, rack mount configurations
- ► ISO 9001:2008, RoHS, CE, UL61010

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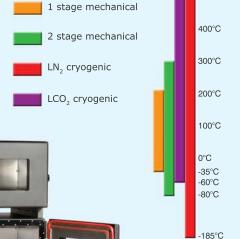
### Cryogenic vs. Mechanical

Cryogenic cooling systems use Liquid Nitrogen  $(LN_2)$  or Liquid Carbon Dioxide  $(LCO_2)$  for rapid transitions and wide temperature ranges. They typically have a lower initial cost but require replacement of expendable coolants.

Mechanical cooling systems use compressors and conventional refrigerants in a closed-loop cooling system. They typically have a higher initial cost but are less expensive to operate.

500°C

#### **Temperature Ranges**



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# **Standard and Custom Thermal Chambers**

# Sigma Thermal Chambers for a variety of industries and applications



guidance telemetry systems





PCB batch production



LED production



telecom components



industrial components



materials tensile



industrial sensors